Qosmio®

Model Name	Description	Part Number	UPC Code
Qosmio F15-AV201	Intel ® Pentium® M processor 745, 512MB DDR SDRAM, 80GB (5400RPM), 15.4" WXGA, DVD SuperMulti, Wi-Fi 802.11b/g, 128MB NVIDIA® DDR SDRAM VRAM, Bluetooth Version 1.2, Microsoft® Windows® XP Media Center Edition 2005, Toshiba QosmioPlayer, TVTuner	**PQF10U-00K00H**	**032017279827**

System Characteristics

Operating System
- Microsoft® Windows® XP Media Center Edition 2005
- TOSHIBA® QosmioPlayer

CPU[1]

Intel® Centrino™ Mobile Technology featuring
- Intel Pentium® M processor 745 [1.80GHz, 2MB L2 cache, 400MHz FSB
- Intel 855PM system chipset
- Intel PRO/Wireless 2200BG (802.11b/g)[2]

Memory
- 512MB DDR SDRAM, expandable to 2048MB (both memory slots may be occupied at the time of purchase)
- 2 memory slots (both memory slots may be occupied at the time of purchase); 2 user upgradeable SODIMM slots.

Mass Storage
- 80GB[3] (5400RPM) Hard Disk Drive
- Optical Disk Drive(s)
  - Fixed DVD SuperMulti drive
    - Maximum Speed
      - CD-ROM(24x:read), CD-R(24x:write), CD-RW(10x:write), DVD-ROM(8x:read), DVD-R(8x:write), DVD-RW(4x:write), DVD+R(8x:write), DVD+RW(4x:write), DVD-RAM(3x:write)
    - Compatibility
      - CD-ROM(read), CD-R(read/write), CD-RW(read/write), DVD-ROM(read), DVD-R(read/write), DVD-RW(read/write), DVD+R(read/write), DVD+RW(read/write), DVD-RAM(read/write)

TV Tuner
- TOSHIBA TV Tuner
  - Region/Standard – US/NTSC
  - Video-in – RF, AV-IN (Composite/S-Video/Line-IN)
  - Parental Control and Closed Caption

Display[4]
- TOSHIBA TruBrite™ 15.4" diagonal WXGA TFT display
  - Resolution – 1280 x 800 internal LCD
  - Brightness Level[5] – (Cd/m^2)
    - When Plugged into AC – Up to 450 Cd/m^2
    - When in Battery mode – Up to 300 Cd/m^2
  - Contrast – 400 : 1
  - Viewing angle
    - Horizontal – 130 degrees
    - Vertical – 100 degrees
- Brightness Control – FN+F6/ F7, Brightness Button, TOSHIBA Power Saver and Brightness button

QosmioEngine
- Digital Sharpness, Black / White Extension, LCD Over Drive, De-Interlacing, Color Adjustment, Edge Enhancement, Digital Noise Reduction, De-ringing, De-blocking, Dynamic contrast adjustment
- Picture Enhancement Utility

Graphics
- 128MB DDR SDRAM NVIDIA® GeForce™ FX GO 5700 VRAM
- Internal LCD Support Resolution - 1280 x 800

Input Devices
- Keyboard
  - 85 key US keyboard, 2.7mm key stroke, 6mm keyboard height, 19.05mm key pitch
  - Hot Key Functions (FN); please see electronic User's Guide for more information
  - Windows Key Function
  - Application Key Function
- Mouse:
  - TouchPad™ pointing device
  - TouchPad Enable/Disable (FN+F9 or by help of software)
- Others:
  - AV Button, TV Button
  - CD Buttons
    - Skip to Previous Track, Play, Stop, Skip to Next Track
- Remote Control(s)
  - Toshiba QosmioPlayer and Microsoft® Windows® Media Center Edition 2005 remote control – external USB RC-6 IR Blaster receiver
    - Power On/Shut Down, CD/DVD/Digital Audio play control, Volume control, Maximize Window, TV button

Expandability
- 2 available expansion memory slots
- 1 PCMCIA PC Card slot – supports 1 Type II PC Card slot
- Bridge Media Adapter (Secure Digital®, Memory Stick™, , Memory Stick PRO™, Multi Media Card, xD Picture Card [shared slots])

Communications
- TOSHIBA Software Modem[6] AMR - V.90/V.92 Data + Fax (56K data, 14.4K fax) support
- Intel® PRO/100 VE Network Connection - 10/100 Base-TX Ethernet
- Intel® Pro/Wireless LAN 2200 BG Mini PCI Adapter
- Bluetooth® version 1.2 with TOSHIBA Bluetooth Stack software

Ports and Slots
- RGB (monitor out port)
- 4 USB ports
- TV-Out (2 ports): S-Video out and Component out via D port connector
- RJ11/ RJ45
- i.LINK™ 1394
- S/P DIF (shared with headphone jack)
- AV-IN (2 ports): Composite/Monitor/Line-IN and S-Video IN

Physical Description
- Dimensions (WxDxH): 14.7" x 11.2" x 1.7" without feet
- Weight[7]: starting at 8.6 lbs. (without AC Adapter)
- Switch: Power, Wireless Communication
- LED Indicators: Power, DC-IN, Primary HDD access, Power Save mode (with ACPI-OS, common to Power), Caps Lock, Arrow mode, Numeric mode, Main Battery Charging Status, System Sleep/Suspend Status (common with Power/System Sleep Status), Wireless Communication (for Wireless LAN/BlueTooth), SD/xD (dedicated, Same SD/MS/xD indicator), Power Button Illumination (dedicated, in Power Button, 3 colors LED)

Sound
- Type of Sound Chip – Software Sound
  - Connected BUS - AC'97
- Type of Codec Chip – AnalogDevices, Inc. AD1981B
- Compatibility – AC'97 Rev2.2
- Support Audio Format – 16bit stereo
- MaxSampling Rate – 48kHz
- Full Duplex Support – Yes
- # of Voices – 32
- MIDI (play back) Support – Yes
- DirectSound – Yes(Supported by driver)

- Direct3DSound – Yes(Supported by driver)
- DirectMusic – Yes(Supported by driver)
- Ports
  - External Microphone (monoaural), Headphone (stereo), Line-in (shared with Monitor-IN), Dolby™ AC3 Digital out (S/P DIF), Sound Volume (by dial), Built-in microphone (monoaural)
- Built-in harman/kardon® stereo speakers

Power Supply
- 90W (15V x 6A) Auto sensing external AC Adapter, 100-240V / 50-60Hz frequency (Universal) input.
- Dimensions (WxDxH): 2.20" x 1.26" x 5.83"
- Weight[8]: starting at 1.14 lbs

Battery[9]
- Lithium Ion 6-Cell (4400mAh)
- Weight[10]: starting at 0.71 lbs
- Dimensions (WxDxH): 5.07" x 2.83" x 0.80"
- Recharge Time
  - Main Batter Off/On – approximately 3.0 hrs/approximately 4.0 to 12.0 hrs
- Up to 1 hour, 44 minutes (when using in Windows® mode) (measured by Mobilemark™ 2002)[11]

Security
- Slot for cable lock, Memory (by one screw), Main Battery Pack (sliding lock), Main HDD (by one screw)
- Passwords: User Power on Password, Supervisor Password
- Hotkey locks: Keyboard, Screen Blank
- Software: Screen Saver

BIOS
- TSETUP, APM (Version 1.2), ACPI (Version 1.0b), PnP (Version 1.0), VESA, DPMS, DDC, SM BIOS (Version 2.3), PCI BIOS (Version 2.1), Boot Device (USB Floppy [optional]), Primary HDD, ODD devices, Network (LAN)

Software
TOSHIBA Software and Utilities
- TOSHIBA QosmioPlayer
- TOSHIBA Bluetooth Stack for Microsoft® Windows®
- TOSHIBA ConfigFree™
- TOSHIBA Custom Utilities
- TOSHIBA Common Modules
- TOSHIBA Hotkey Utility for Display Devices
- TOSHIBA Zooming Utility
- TOSHIBA Power Saver
- TOSHIBA Utilities
- TOSHIBA Console
- TOSHIBA Controls
- TOSHIBA Wireless Hotkey
- TOSHIBA Touch Pad On/Off Utility
- TOSHIBA Touch and Launch
- TOSHIBA Display Device Change Utility
- TOSHIBA Picture Enhancement Utility
- TOSHIBA Speech System
- TOSHIBA PC Diagnostic Tool
- TOSHIBA CD/DVD Drive Acoustic Silencer
- Qosmio F15 Electronic User's Guide
- TOSHIBA MyConnect™ - 45 day free trial offer
  - MYCONNECT OFFER DETAILS: 1 Valid in the US only! You must cancel your Access Plan before the end of the trial period to avoid being charged the $39.95 monthly Access Service fee for the six month plan commitment period. Monthly automatic renewal feature after end of commitment period. Available to new members in the U.S., age 18 or older, and a major credit card for billing is required. Offer is for unlimited dial-up, wired broadband, or Wi-Fi remote access connection time in the 50 United States and the District of Columbia within the MyConnect service area for 30 day continuous service periods. Use of optional 800 telephone number dial-up usage will incur additional fees even during the trial period. Other terms and conditions apply. Offer expires December 31, 2004. Information, prices, and availability subject to change without notice.

Third-party Software[12]
- Microsoft® Bluetooth® Stack for Windows®
- Microsoft® Office® OneNote™ 2003
- Microsoft® Works™ with Office® 2003 Trial - Student/Teacher Edition
- Sun® Java™ 2 Runtime Environment
- Adobe® Acrobat® Reader version 5.0

- Software Decoder: InterVideo® (WinDVD™ 5) -w/SRS TruSurround XT® Technology
  - (SRS® TruSurround XT® Technology features: TruSurround, SRS Dialog Clarity Enhancement, & TruBass)
- InterVideo® WinDVD™ Creator 2 Platinum
- Sonic™ PrimeTime
- Sonic™ Solutions RecordNow!™ Basic for TOSHIBA
- Sonic™ Solutions Drive Letter Access (DLA)
- Microsoft® Windows® Media Player version 10 with SRS® WOW® Effects
- Norton® AntiVirus® 2004 – 3-Month subscription
- Napster® Digital Music Service – 30 days trial
- Easy FireWall – 30 days trial
- AOL® version 9.0 – 3-Month offer
  - AOL OFFER DETAILS: Availability may be limited, especially during peak times. TO AVOID BEING CHARGED A MONTHLY MEMBERSHIP FEE, SIMPLY CANCEL BEFORE THE THREE-MONTH PROMOTIONAL PERIOD ENDS. Premium services carry surcharges and communication surcharges may apply, including AK, even during promotional period. Members may incur telephone charges on their phone bill, depending on their location and calling plan, even during promotional period. Available to new AOL members in the United States, age 18 or older; a major credit card or checking account is required.
- AT&T® Worldnet® Service – 1 Month offer
- Intuit® Quicken® New User Edition 2004
- QuickTime™ Player
- RealOne™ Player 8 Basic

Environmental Specifications

	Operating	Non-Operating
Temperature	5° to 35°C (41° to 95°F)	-20° to 65°C (-4° to 149°F)
Thermal Gradient	15°C per hour maximum	20°C per hour maximum
Relative Humidity	20% to 80%	10% to 90%
Altitude (relative to sea level)	-60 to 3000 meters	-60 to 10,000 meters
Shock	7G, 1.5G when CD/DVD-ROM installed	60G
Vibration	0.2G, 0.25G when CD/DVD-ROM installed	1G

Limited Warranty
- 1-year parts and labor, 1-year battery, 1-year At-Home Repair Service

Extended Warranty
Extend your standard limited warranty up to three (3) additional years, including At-Home Repair*. With At-Home Repair, a technician arrives with parts at your home, typically by the second business day, to perform the necessary hardware repairs.
- - 2nd Year Warranty Extension   SWC-QEQH2V
- - 2nd/3rd Year Warranty Extension   SWP-QEQH3V
- - 2nd/3rd/4th Year Warranty Extension SWC-QEQHDV

SystemGuard(R) provides coverage of accidental damage and breakage caused by drops and spills.*
- - 1 Year SystemGuard   SWC-QSGH1V
- - 2 Year SystemGuard + Warranty Extension SWC-QEGH2V
- - 3 Year SystemGuard + Warranty Extension SWP-QEGH3V
- - 4 Year SystemGuard + Warranty Extension SWC-QEGHDV

*See Toshiba Service Plan Agreement for program terms and conditions. Toshiba Service Plan Agreement www.pcsupport.toshiba.com.

Accessories

Category	Part Number	Description
AC Adapter	PA2521U-2ACA	Toshiba Global 90W AC Adapter
Primary Battery	PA3285U-2BRS	Toshiba Primary 6-Cell Li on Battery Pack
Charger	PA3091U-1CHG	Toshiba Battery Charger w/Integrated AC Adapter

FDD	PA3109U-1FDD	Toshiba USB Floppy Disk Drive Kit		SD Memory	SD-M5124B3	Toshiba 512MB SD (Secure Digital) Card
Memory Upgrade	KTT3311/512	Kingston PC2100/PC2700, 512MB DDR		Cases	PA1360U-1NCS	Toshiba Nylon Case (15.4")
Memory Upgrade	KTT3311/1G	Kingston PC2100/PC2700, 1GB DDR		Cases	PA1361U-1NCS	Toshiba Leather Case (15.4")
Input	PA1336U-1NKB	Toshiba USB Keyboard		Cases	PA1362U-1NCS	Toshiba BackPack (15.4")
Input	PA1337U-1NMS	Toshiba USB Optical Scroller Mouse		Security	NWDEFCL	Targus-Noteworthy DEFCON CL Cable Lock
Input	PA1367U-1NMS	Toshiba USB Ultra-Mini Retractable Scroller Mouse		Storage & Back-up	HDD1232CZP41002	Toshiba 5GB Type II PC Card HDD w/Back-up software
Expansion	PA1368U-1NHB	Toshiba USB 2.0 mini 4-Port Hub (w/AC Adapter)		Storage & Back-up	UABS2-60.0	CMS ABSplus 60GB USB 2.0 Auto Backup Syst
MISC	PA1370U-1ETC	Toshiba Keyboard Protector (Tecra/Satellite/Qosmio)		Storage & Back-up	UABS2-80.0	CMS ABSplus 80GB USB 2.0 Auto Backup Syst
SD Memory	SD-M2564B3	Toshiba 256MB SD (Secure Digital) Card				

Subject to Change
a. "While Toshiba has made every effort at the time of publication to ensure the accuracy of the information provided herein, product specifications, configurations, prices, system/component/options availability are all subject to change without notice. For the most up-to-date product information about your computer, or to stay current with the various computer software or hardware options, visit Toshiba's Web site at pcsupport.toshiba.com."
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1 Central Processing Unit ("CPU") Performance Disclaimer.
CPU performance in your computer product may vary from specifications under the following conditions:
1. use of certain external peripheral products
2. use of battery power instead of AC power
3. use of certain multimedia, computer generated graphics or video applications
4. use of standard telephone lines or low speed network connections
5. use of complex modeling software, such as high end computer aided design applications
6. use of several applications or functionalities simultaneously
7. use of computer in areas with low air pressure (high altitude >1,000 meters or >3,280 feet above sea level)
8. use of computer at temperatures outside the range of 5°C to 30°C (41°F to 86° F) or >25°C (77°F) at high altitude (all temperature references are approximate and may vary depending on the specific computer model – please refer to your Resource Guide or visit the Toshiba website at www.pcsupport.toshiba.com for details).
CPU performance may also vary from specifications due to design configuration.
Under some conditions, your computer product may automatically shut-down. This is a normal protective feature designed to reduce the risk of lost data or damage to the product when used outside recommended conditions. To avoid risk of lost data, always make back-up copies of data by periodically storing it on an external storage medium. For optimum performance, use your computer product only under recommended conditions. Read additional restrictions under "Environmental Conditions" in your product Resource Guide. Contact Toshiba Technical Service and Support for more information.
2 The transmission speed over the wireless LAN and the distance over which wireless LAN can reach may vary depending on surrounding electromagnetic environment, obstacles, access point design and configuration, and client design and software/hardware configurations. The actual transmission speed will be lower than the theoretical maximum speed.
3 1 Gigabyte (GB) means 1000 x 1000 x 1000 = 1,000,000,000 bytes using powers of 10. The computer operating system, however, reports storage capacity using powers of 2 for the definition of 1 GB = 1024 x 1024 x 1024 = 1,073,741,824 bytes, and therefore may show less storage capacity. Available storage capacity will also be less if the product includes one or more pre-installed operating systems, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.
4 Small bright dots may appear on your TFT display when you turn on your PC. Your display contains an extremely large number of thin-film transistors (TFT) and is manufactured using high-precision technology. Any small bright dots that may appear on your display are an intrinsic characteristic of the TFT manufacturing technology. Over a period of time, and depending on the usage of the computer, the brightness of the LCD Screen will deteriorate. This is an intrinsic characteristic of LCD technology.
5 (a) Over a period of time, and depending on the usage of the computer, the brightness of the LCD Screen will deteriorate. This is an intrinsic characteristic of LCD technology.
  (b) Screen will dim when the computer is operated on battery power and you may or may not be able to increase the brightness of the screen.
6 Due to FCC limitations, speeds of 53 kbps are the maximum permissible transmission rates during download. Actual data transmission speeds will vary depending on line conditions.
7 Weight may vary depending on product configuration, vendor components, manufacturing variability and options selected.

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8 Weight may vary depending on product configuration, vendor components, manufacturing variability and options selected.
9 Battery life may vary depending on product model, configuration, applications, power management settings and features utilized. Recharge time varies depending on usage. Battery may not charge while computer is consuming full power. After a period of time, the battery will lose its ability to perform at maximum capacity and will need to be replaced. This is normal for all batteries. To purchase a new battery pack, see the accessories information that shipped with your computer or visit the Toshiba web site at www.accessories.toshiba.com.
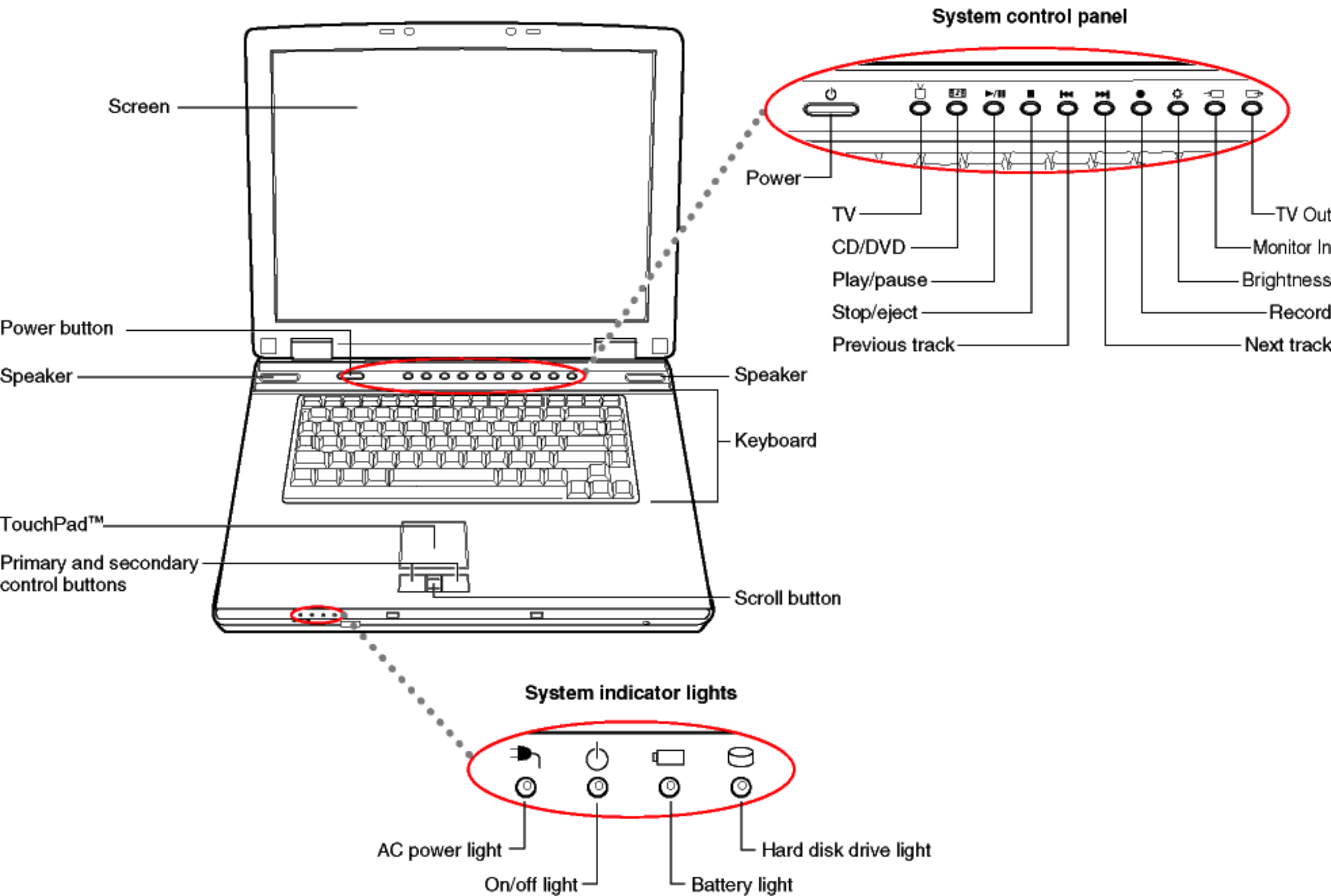10 Weight may vary depending on product configuration, vendor components, manufacturing variability and options selected.
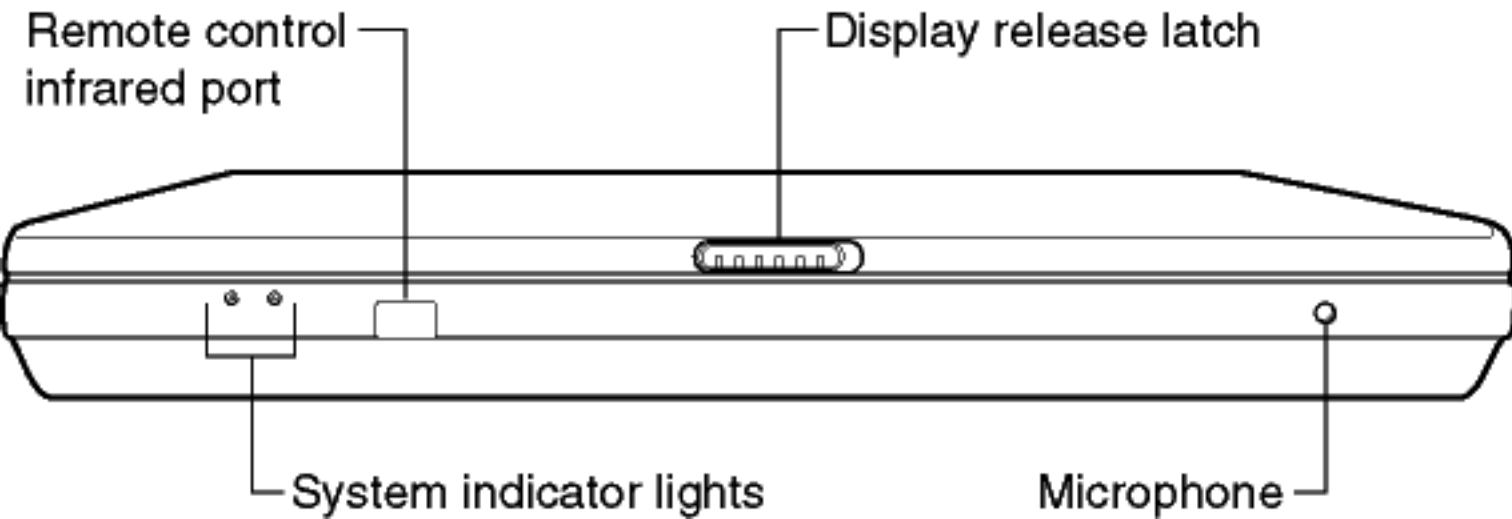[11] MobileMark is a trademark of the Business Applications Performance Corporation.
[12] Some software may differ from its retail version (if available), and may not include user manuals or all program functionality.

Front with display open

System control panel

Screen

Power

TV

CD/DVD

Play/pause

Stop/eject

Previous track

TV Out

Monitor In

Brightness

Record

Next track

Power button

Speaker

Speaker

Keyboard

TouchPad™

Primary and secondary
control buttons

Scroll button

System indicator lights

AC power light

On/off light

Battery light

Hard disk drive light

Front with display closed

Remote control infrared port

Display release latch

System indicator lights

Microphone

Left side

Wireless antenna on/off switch**

Bridge Media slot*

PC Card eject button

PC Card slot

Security lock slot

USB port

i.LINK® port
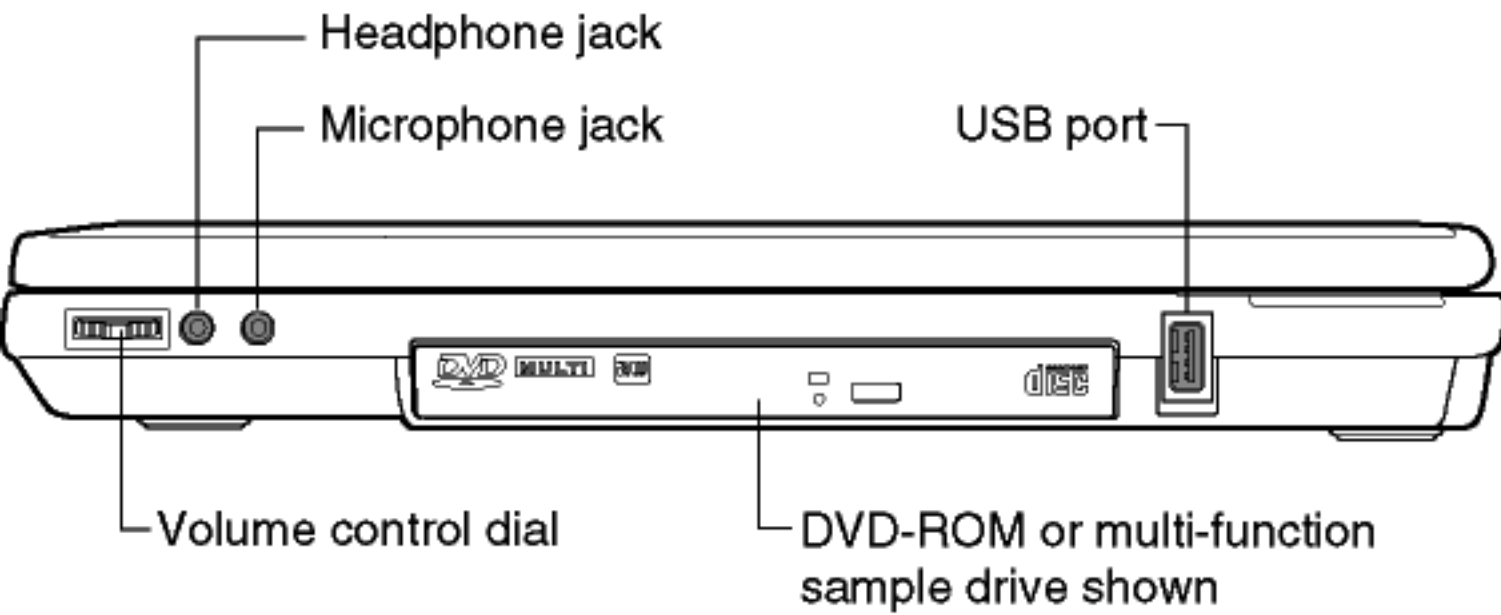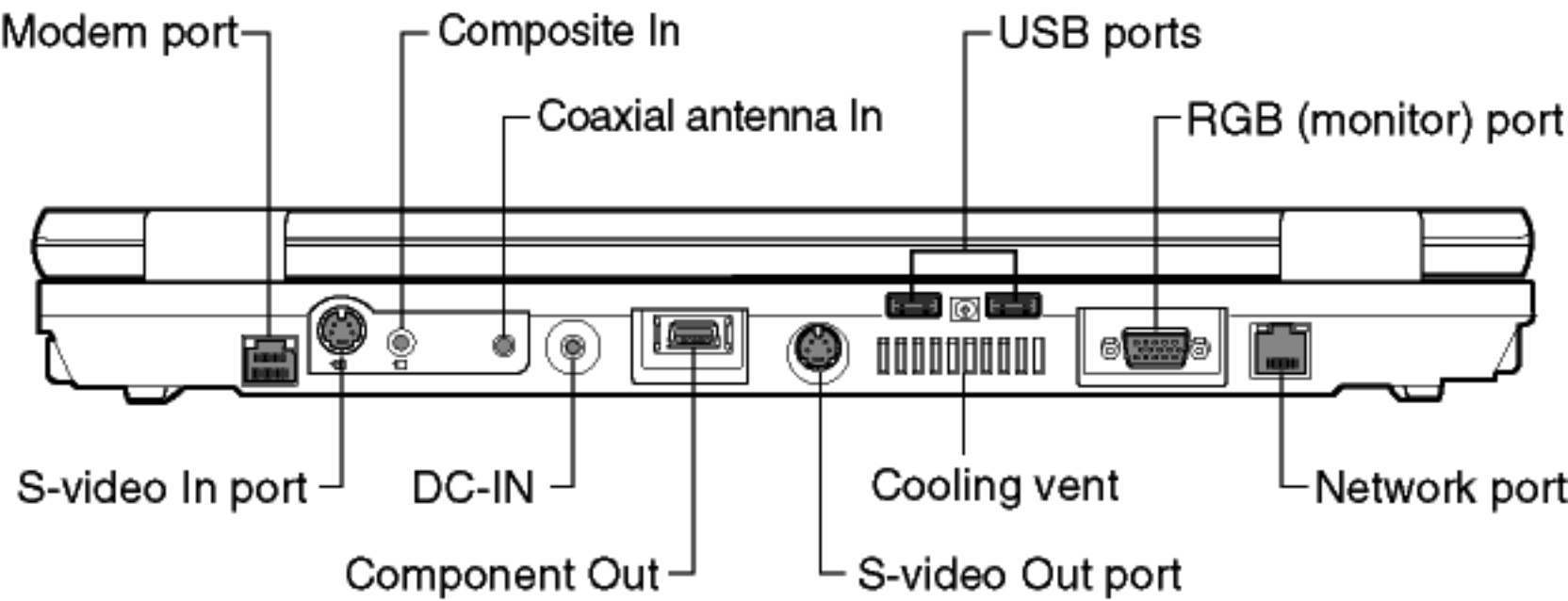
*Available on certain models.
**Functional only on systems with wireless module installed.

Right side

Headphone jack

Microphone jack

USB port

Volume control dial

DVD-ROM or multi-function
sample drive shown

Back

Modem port

Composite In

USB ports

Coaxial antenna In

RGB (monitor) port

S-video In port

DC-IN

Cooling vent

Network port

Component Out

S-video Out port

Underside

Memory cover

Battery module

Battery release

Battery release lock